

03040205-110 (*Pudding Swamp*)

General Description

Watershed 03040205-110 is located in Clarendon, Sumter, and Lee Counties and consists primarily of ***Pudding Swamp*** and its tributaries. The watershed occupies 119,907 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Lynchburg-Fuquay-Rains-Goldsboro-Noboco series. The erodibility of the soil (K) averages 0.14; the slope of the terrain averages 2%, with a range of 0-6%. Land use/land cover in the watershed includes: 35.4% forested land, 29.5% agricultural land, 19.3% scrub/shrub land, 13.6% forested wetland, 1.5% nonforested wetland, 0.6% water, and 0.1% urban land.

Pudding Swamp accepts drainage from Hope Swamp (Threemile Branch), Trustless Branch, and Horse Branch (Fuller Bay, Cypress Lake) before merging with Douglas Swamp. Douglas Swamp flows past Woods Bay State Park and accepts drainage from Woods Bay, Cypress Branch (Bushy Branch), Burnt Branch, and Rose Creek. Downstream of the confluence, Newman Branch (Cain Branch) flows into Pudding Swamp. The Pudding Swamp Watershed drains into the Black River. There are 226.9 stream miles in this watershed and several lakes and ponds totaling 175.8 acres. Pudding Swamp, Douglas Swamp, and Cypress Branch are classified FW* (Dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.0) and the remaining streams in the watershed are FW.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-203	S	FW*	PUDDING SWAMP AT SC 527 8.1 MILES NW OF KINGSTREE

Pudding Swamp (PD-203) - Aquatic life uses are fully supported. This is a blackwater system, characterized by naturally low dissolved oxygen concentrations. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT	NPDES# TYPE LIMITATION
PUDDING SWAMP S.C. HWY. DEPT./REST AREA I-95 PIPE #: 001 FLOW: 0.04 WQL FOR DO,TRC,NH3N	SC0038962 MINOR DOMESTIC WATER QUALITY

PUDDING SWAMP
GERALD SMITH/JERRY'S POND MINE
PIPE #: 001 FLOW: M/R

SCG730198
MINOR INDUSTRIAL
EFFLUENT

PUDDING SWAMP
KEELS KIRBY/DOUBLE 'K' MINE
PIPE #: 001 FLOW: M/R

SCG730201
MINOR INDUSTRIAL
EFFLUENT

HORSE BRANCH
TOWN OF TURBEVILLE WWTP
PIPE #: 001 FLOW: 0.60
WQL FOR TRC,NH3N,BOD5

SC0025755
MINOR DOMESTIC
WATER QUALITY

SPRAY FIELD-HORSE BRANCH
TOWN OF TURBEVILLE
PIPE #: 002 FLOW: 0.45/0.6
WQL FOR TRC

SC0025755
MINOR DOMESTIC
WATER QUALITY

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the Towns of Turbeville and Olanta, and portions of the I-95 and U.S. Hwy. 378 corridors. The I-95/U.S. Hwy. 378 interchange now has water and sewer service and is expected to see moderate to high growth. Water and sewer services are available in and around the Towns of Olanta and Turbeville, and should encourage growth. The remainder of the watershed is rural with agricultural and timberland uses.